

Project:

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**South Bay Water Recycling Plan Check List for a Cooling Tower Retrofit Project in Santa Clara**


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- ☐ The plans should show lot lines and structures, and should clearly identify all adjacent streets, and locations of all major improvements on the site.
- ☐ Indicate all sources of water to the site on the plans, such as all present potable water supply meters, the proposed recycled water meter, any fire services, and any auxiliary water supply sources such as onsite wells. Show the location and indicate the size of these water meters on the plans.
- ☐ Show the location of any wells, lakes, ponds, reservoirs, or other water impoundments located on the site or within 100 feet of the site, and indicate the type of water source.
- ☐ Show the location and size of all water meters on the piping plans.
- ☐ Show the location and indicate the type of all backflow prevention devices that protect the public water supply to the site, such as backflow prevention assemblies for potable water systems (reduced pressure principle backflow prevention assembly required) and fire service backflow prevention assemblies.
- ☐ Show the location of all proposed recycled water pipelines (clearly differentiate buried lines from above ground lines) crossing the site. Clearly call out any locations where the proposed recycled water piping must cross potable/fire water pipelines. Buried portions of the proposed recycled water piping must be separated from the potable water piping per the separation rules explained in SBWR STANDARD NOTE #13 (mentioned later in this checklist) – indicate that the separation between potable and recycled water lines meets these minimum requirements.
- ☐ Show the potable water line that currently supplies make-up water to the cooling tower.
- ☐ Show the location and indicate the type of all valves and appurtenances for the proposed recycled water system.
- ☐ Supply the following information box on the site plans. Fill out the six items as applicable, but do not delete any of them.

[project title here] (SBWR SERVICE NO. SC-xxx-xxxx)

**GENERAL SITE INFORMATION for RECYCLED WATER USE**

1. PUBLIC ACCESS TO SITE GROUNDS IS (*indicate: UNRESTRICTED or RESTRICTED*).
2. PUBLIC ACCESS TO COOLING TOWER(S) IS (*indicate: UNRESTRICTED or RESTRICTED*).
3. OWNER: (*legal property owner's name*).
4. PROPERTY MANAGER CONTACT: (*name, title, and telephone number*).
5. TENANT (S): [*name(s) & phone number(s); if not applicable, state NOT APPLICABLE*].
6. ON-SITE WELL LOCATIONS: (*for example, ONE; if none, state NONE*).
7. WELLS ON ADJACENT SITES LOCATED WITHIN 50 FT. OF RECYCLED WATER APPROVED USE AREA OR WITHIN 100 FT. OF ANY RECYCLED WATER IMPOUNDMENT: (*for example, ONE; if none, state NONE*).

- ☐ Provide construction details showing the existing potable water make-up connection(s) and the proposed recycled water make-up connection to the cooling tower. The emphasis is on backflow prevention here – these details must clearly set forth how these two types of water enter the tower, which needs to be via an approved air gap. "Approved air gap" means a physical separation between

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the free-flowing end of a water supply pipeline and the overflow rim of an open or nonpressurized receiving vessel. An air gap separation must be at least double the diameter of the supply pipe, measured vertically from the flood rim of the receiving vessel to the supply pipe.

- ☐ Show all other details necessary to properly construct the system.
- ☐ Include a materials/equipment legend specifying all materials of construction for the system (that conform to the requirements specified in the STANDARD NOTES mentioned below) that includes:
  - A pipe schedule listing pipe sizes, materials of construction, and type of water conveyed by the piping.
  - Indication of how the buried and above ground recycled water piping is to be identified.
- ☐ Include the CITY OF SANTA CLARA (SBWR) STANDARD NOTES FOR ON-SITE RECYCLED WATER SYSTEMS SUPPLYING COOLING TOWERS on the plans.
- ☐ Add signature lines for the California Department of Public Health, the City of Santa Clara, and South Bay Water Recycling – to all plan sheets, detail sheets, and specification sheets that pertain to this recycled water project.
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